Time-series Forest Change, Land Cover/Land Use Conversion and Socio-economic Driving Forces in the Petén, Guatemala P.I. Steven A. Sader, University of Maine, Orono

- •Develop a land-cover/land-use change database of the Maya Biosphere Reserve (MBR) for 1974-97.
- •Quantify forest clearing and regrowth rates by time period.
- •Determine socio-economic factors that influence land-use change decisions.
- •Satellite image change detection techniques were applied to time-series Landsat MSS and TM imagery to develop data on forest clearing rates and trends.
- •Clearing to regrowth area ratios and patch characteristics varied among study sites for the different time periods.
- •Agricultural reforms; i.e. fallow periods, monocropping, pasture development, harvest of nontimber forest products.
- •Changes in domestic settlement incentives following assessment of change rates.
- •Biosphere level monitoring and periodic updates are instrumental in NGO/donor conservation management strategy and policy development.





